APRIL/MAY 2025

# CCA43/CSCS43/CESC63C/FESC63C — WIRELESS DATA COMMUNICATION

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What are the key elements of a protocol?

2. State the merits and demerits of bus topology.

3. Distinguish between information and signal.

4. What are the methods used to propagate radio waves?

5. How does a muter differ from a bridge?

6. What is the purpose of the hamming code?

7. Write down the disadvantages of infrared Technology.

8. What is mean by L2EAP?

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9. Define the term Telnet.

10. How the secret keys differ from a private key?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Narrate three criteria necessary for an effective and efficient network.

Or

(b) Explicate the different categories of networks.

12. (a) Describe the characteristics of a sine wave.

Or

(b) Elucidate the advantages and disadvantages of fibre optic cable.

13. (a) Enumerate the steps involved in creating a checksum.

Or

(b) Illustrate the distance vector routing algorithm.



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14. (a) Compare the various wireless networks

Or

(b) Discuss about the Bluetooth protocol stack.

15. (a) Examine the significance of SNMP.

Or

(b) Briefly discuss on access authorization.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Illustrate the layered architecture of the OSI model.

17. Describe about the propagation of radio waves.

18. Explicate the concept of circuit switching.

19. Expound that generic WATM reference model and their handover process.

20. Explain the significance of Internet work protocol and the format of IP.

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